

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA2004/000585

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E01H4/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 E01H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 705 746 A (MCLEOD STARR R) 12 December 1972 (1972-12-12)	1,2,4-7, 10-15
Y	column 6, line 12 - column 7, line 13; figures 1,2	3
X	US 3 178 837 A (VINCENT CAPALBO EUGENE) 20 April 1965 (1965-04-20)	1-4, 8-10, 13-15
Y	column 6, line 18 - line 60; figures	
X	US 2 795 870 A (PAUL LEDUC JEAN) 18 June 1957 (1957-06-18) cited in the application column 2, line 47 - column 3, line 9; figure 1	3

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

16 July 2004

Date of mailing of the International search report

27/07/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel: (+31-70) 340-2040, Tx: 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Movahdat, R

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/CA2004/000585

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3705746	A 12-12-1972	CA 926117 A1	15-05-1973
US 3178837	A 20-04-1965	NONE	
US 2795870	A 18-06-1957	NONE	